

ORGANIC DATA VALIDATION

Case No.: 20267 Site: Castle Miles Landfill
Laboratory: ARI No. of Samples: 19
SDG#: FAA59 Matrix: Soil and Water

Soil Samples: FA-A63, FA-A64, FA-A65, FA-A66, FA-A67, FA-A68,
FA-A69, FA-A70, FA-A71, FA-A72, FA-A73

Water Samples: FA-A59, FA-A60, FA-A74, FA-A75, FA-A76, FA-A77,
FA-A78, FA-A79

Comments: Eleven soil samples and eight water samples from the Castle Miles Landfill were analyzed. Anticipated concentrations were low. Samples were not analyzed within the allowable holding times. VOA, BNA, and pesticides data are provisional. Problems were encountered in the calibration of VOAs and BNAs and the pesticide analysis sequence was not acceptable because a standard was not analyzed after every fifth sample. All detectable concentrations are qualified as estimates.

1. Holding Times

VOA: The solid samples met EPA QA/QC criteria but the water samples exceeded the allowed holding times. Reported VOA values in water samples were qualified as estimates.

BNA: The water samples met the EPA QA/QC criteria but the extraction holding times were exceeded for all soil samples.

Pest/PCB: The water samples met the EPA QA/QC criteria but the extraction holding times were exceeded for all soil samples. Reported Pest/PCB values in soil samples were qualified as estimates.

2. Tuning/Performance

VOA: Meets EPA QA/QC criteria.

BNA: Meets EPA QA/QC criteria.

Pest/PCB: The Analysis Sequence did not meet EPA QA/QC criteria.

3. Calibrations

VOA: %D for chloromethane, bromoform, and acetone all exceeded EPA QA/QC criterion of 25%.

BNA:

%D for 2,4-Dinitrophenol exceeded EPA QA/QC criterion of 25%. Internal standards for samples FA-A63, FA-A64, FA-A69, FA-A70, FA-A71 and FA-A72 did not meet area requirements. Samples were rerun and internal standards were outside area specifications again.

Pest/PCB:

%RSD for Linearity Check Compounds failed EPA QA/QC criterion of 10%. %D for standards failed EPA QA/QC criterion of 15% for quantitative columns. %D for standards failed EPA QA/QC criterion of 20% for confirmatory columns.

4. **Blanks**

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Meets EPA QA/QC criteria.

5. **System Monitoring Compounds (SMCs)/Surrogates**

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Surrogate recoveries were not acceptable for samples FA-A59, FA-A76MS, and FA-A76MSD.

6. **Matrix Spike/Matrix Spike Duplicates**

VOA:

Meets EPA QA/QC criteria.

BNA:

MS and MSDs were out of compliance because reported values exceeded allowable ranges for recovery. Recovery of 4-Nitrophenol, Pentachlorophenol, 1,4-Dichlorobenzene, and 1,2,4-Trichlorobenzene did not meet standards.

Pest/PCB:

Meets EPA QA/QC criteria.

7a. **Compound Identity/Quantitation**

VOA:

Meets EPA QA/QC criteria.

BNA:

Meets EPA QA/QC criteria.

Pest/PCB:

Meets EPA QA/QC criteria.

002329

7b. Data Completeness

VOA: Meets EPA QA/QC criteria.

BNA: Meets EPA QA/QC criteria.

Pest/PCB: Data package provided did not correspond to the requirements of the EPA data validation procedures.

8. Case Assessment

VOA: Water samples were not analyzed within the allowed holding times. Calibrations of several VOA parameters were out of compliance. Data are provisional.

BNA: Calibrations of a few SVOA parameters were out of compliance. Soil sample extracts were not analyzed within the allowed holding time. Data are provisional.

Pest/PCB: Calibrations of a few Pesticide/PCB parameters were out of compliance. The analytical sequence was not correct. Soil sample extracts were not analyzed within the allowed holding time. Data are provisional.

002330

Site Name and Code: Castle Miles LF
Case Number: 20287
Concentrations in micrograms/kilogram (ug/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number Matrix Percent Moisture Location and/or Sample Description	FA-A58		FA-A60		FA-A63		FA-A64		FA-A65		FA-A66		FA-A67	
	WATER		WATER		SOIL		SOIL		SOIL		SOIL		SOIL	
	18		18		21		21		21		14		18	
	GW-18		GW-18		SS-01		SS-02		SS-03		SS-04		SS-05	
	Description													
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Phenol	108-95-2	BNA												
bis(2-Chloroethyl)Ether	111-44-4	BNA												
2-Chlorophenol	95-57-8	BNA												
1,3-Dichlorobenzene	541-73-1	BNA												
1,4-Dichlorobenzene	106-46-7	BNA												
1,2-Dichlorobenzene	95-50-1	BNA												
2-Methylphenol	95-48-7	BNA												
2,2'-Oxybis(1-Chloropropane)	108-60-1	BNA												
4-Methylphenol	106-44-5	BNA												
N-Nitroso-Di-n-Propylamine	621-64-7	BNA												
Hexachloroethane	67-72-1	BNA												
Nitrobenzene	98-95-3	BNA												
Isophorone	78-59-1	BNA												
2-Nitrophenol	88-75-5	BNA												
2,4-Dimethylphenol	105-67-9	BNA												
bis(2-Chloroethoxy)Methane	111-91-1	BNA												
2,4-Dichlorophenol	120-83-2	BNA												
1,2,4-Trichlorobenzene	120-82-1	BNA												
Naphthalene	91-20-3	BNA												
4-Chloroaniline	106-47-8	BNA												
Hexachlorobutadiene	87-68-3	BNA												
4-Chloro-3-Methylphenol	59-50-7	BNA												
2-Methylnaphthalene	91-57-6	BNA												
Hexachlorocyclopentadiene	77-47-4	BNA												
2,4,6-Trichlorophenol	88-06-2	BNA												
2,4,5-Trichlorophenol	95-95-4	BNA												
2-Chloronaphthalene	91-58-7	BNA												
2-Nitroaniline	88-74-4	BNA												
Dimethyl Phthalate	131-11-3	BNA												
Acanaphthylene	206-98-8	BNA												
2,6-Dinitrotoluene	606-20-2	BNA												
3-Nitroaniline	99-09-2	BNA												
Acanaphthylene	83-32-9	BNA												
EDGE														
- The material was analyzed for, but was not detected. The concentration is less than the detection limit.														

LEGEND

- U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- B - Analyte was detected in the blank.
- J - The associated numerical value is an estimated quantity.
- R - Data for analysis is unusable (compound may or may not be present).
- N - Presumptive evidence of presence of the material.
- NJ - Presumptive evidence of the presence of the material at an estimated quantity.
- UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Site Name and Code: Castle Miles LF
Case Number: 20257
Concentrations in micrograms/kilogram (ug/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number:
Matrix:
Percent Moisture:
Location
and/or
Sample
Description:

FA-A59	FA-A60	FA-A63	FA-A64	FA-A65	FA-A66	FA-A67
WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
18	21	21	14	18	18	18
GW-18	GW-18	SS-01	SS-02	SS-03	SS-04	SS-05
Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
C	C	C	C	C	C	C

COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
2,4-Dinitrophenol	51-28-5	BNA												
4-Nitrophenol	100-02-7	BNA												
Dibenzofuran	132-64-9	BNA												
2,4-Dinitrotoluene	121-14-2	BNA												
Diethylphthalate	84-66-2	BNA												
4-Chlorophenyl-phenylether	7005-72-3	BNA												
Fluorene	86-73-7	BNA												
4-Nitroaniline	100-01-6	BNA												
4,6-Dinitro-2-Methylphenol	534-52-1	BNA												
N-Nitrosodiphenylamine(1)	86-30-6	BNA												
4-Bromophenyl-phenylether	101-55-3	BNA												
Hexachlorobenzene	118-74-1	BNA												
Pentachlorophenol	87-86-5	BNA												
Phenanthrene	85-01-8	BNA												
Anthracene	120-12-7	BNA												
Carbazole	86-74-8	BNA												
Di-n-Butylphthalate	84-74-2	BNA												
Fluoranthene	206-44-0	BNA												
Pyrene	129-00-0	BNA												
Butylbenzylphthalate	85-68-7	BNA												
3,3'-Dichlorobenzidine	91-94-1	BNA												
Benzo(a)Anthracene	56-55-3	BNA												
Chrysene	218-01-9	BNA												
bis(2-Ethylhexyl)Phthalate	117-81-7	BNA												
Di-n-Octyl Phthalate	117-84-0	BNA												
Benzo(b)Fluoranthene	205-99-2	BNA												
Benzo(k)Fluoranthene	207-08-9	BNA												
Benzo(a)Pyrene	50-32-8	BNA												
Indeno(1,2,3-cd)Pyrene	193-39-5	BNA												
Sibenz(a,h)Anthracene	53-70-3	BNA												
Benzo(g,h,i)Perylene	191-24-2	BNA												

LEGEND

- U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
- B - Analyte was detected in the blank.
- J - The associated numerical value is an estimated quantity.
- R - Data for analyte is unusable (compound may or may not be present).
- N - Presumptive evidence of presence of the material.
- NJ - Presumptive evidence of the presence of the material at an estimated quantity.
- UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

B:USVOABLK

0 0 2 3 3 2

Site Name and Code: Castle Miles LF
Case Number: 20267
Concentrations in micrograms/kilogram (ug/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number Matrix Percent Moisture Location and/or Sample Description	FA-A88		FA-A89		FA-A70		FA-A71		FA-A72		FA-A73		FA-A74	
	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		WATER	
	20		19		22		26		20		19			
	SS-06		SS-07		SS-08		SS-09		SS-10		SS-11		GW-12	
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Phenol	108-95-2	BN												
bis(2-Chloroethyl)Ether	111-44-4	BN												
2-Chlorophenol	95-57-8	BN												
1,3-Dichlorobenzene	541-73-1	BN												
1,4-Dichlorobenzene	106-46-7	BN												
1,2-Dichlorobenzene	95-50-1	BN												
2-Methylphenol	95-48-7	BN												
2,2'-Oxybis(1-Chloropropane)	108-60-1	BN												
4-Methylphenol	106-44-5	BN												
N-Nitroso-Di-n-Propylamine	621-64-7	BN												
Hexachloroethane	67-72-1	BN												
Nitrobenzene	98-96-3	BN												
Isophorone	78-59-1	BN												
2-Nitrophenol	88-75-5	BN												
2,4-Dimethylphenol	105-67-9	BN												
bis(2-Chloroethoxy)Methane	111-91-1	BN												
2,4-Dichlorophenol	120-83-2	BN												
1,2,4-Trichlorobenzene	120-82-1	BN												
Naphthalene	91-20-3	BN												
4-Chloroaniline	106-47-8	BN												
Hexachlorobutadiene	87-68-3	BN												
4-Chloro-3-Methylphenol	59-50-7	BN												
2-Methylnaphthalene	91-57-6	BN												
Hexachlorocyclopentadiene	77-47-4	BN												
2,4,6-Trichlorophenol	88-06-2	BN												
2,4,5-Trichlorophenol	95-95-4	BN												
2-Chloronaphthalene	91-58-7	BN												
2-Nitroaniline	88-74-4	BN												
Dimethyl Phthalate	131-11-3	BN												
Acenaphthylene	208-96-8	BN												
2,6-Dinitrofluorene	606-20-2	BN												
3-Nitroaniline	99-09-2	BN												
Acenaphthylene	83-32-9	BN												

LEGEND

U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
B - Analyte was detected in the blank.
J - The associated numerical value is an estimated quantity.
R - Data for analysis is unusable (compound may or may not be present).
N - Presumptive evidence of presence of the material.
NJ - Presumptive evidence of the presence of the material at an estimated quantity.
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

B:\VOABLK

0 0 2 3 3 3

Site Name and Code: Castle Miles LF
Case Number: 20287
Concentrations in micrograms/kilogram (ug/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number	FA-A68	FA-A69	FA-A70	FA-A71	FA-A72	FA-A73	FA-A74
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER
Percent Moisture	20	18	22	26	20	18	
Location	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	GW-12
and/or							
Sample							
Description							

COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
2,4-Dinitrophenol	51-28-5	BNA												
4-Nitrophenol	100-02-7	BNA												
Dibenzofuran	132-64-9	BNA												
2,4-Dinitrotoluene	121-14-2	BNA												
Diethylphthalate	84-66-2	BNA												
4-Chlorophenyl-phenylether	7005-72-3	BNA												
Fluorene	86-73-7	BNA												
4-Nitroaniline	100-01-6	BNA												
4,6-Dinitro-2-Methylphenol	534-52-1	BNA												
N-Nitrosodiphenylamine(1)	86-30-6	BNA												
4-Bromophenyl-phenylether	101-55-3	BNA												
Hexachlorobenzene	118-74-1	BNA												
Pentachlorophenol	87-86-5	BNA												
Phenanthrene	85-01-8	BNA												
Anthracene	120-12-7	BNA												
Carbazole	86-74-6	BNA												
Di-n-Butylphthalate	84-74-2	BNA												
Fluoranthene	206-44-0	BNA												
Pyrene	129-00-0	BNA												
Butylbenzylphthalate	85-68-7	BNA												
3,3'-Dichlorobenzidine	91-94-1	BNA												
Benzo(a)Anthracene	56-55-3	BNA												
Chrysene	218-01-9	BNA												
bis(2-Ethylhexyl)Phthalate	117-81-7	BNA												
Di-n-Octyl Phthalate	206-99-2	BNA												
Benzo(b)Fluoranthene	207-08-9	BNA												
Benzo(k)Fluoranthene	50-32-8	BNA												
Benzo(a)Pyrene	193-39-5	BNA												
Indeno(1,2,3-cd)Pyrene	53-70-3	BNA												
Bibenz(a,h)Anthracene	191-24-2	BNA												
Benzo(g,h,i)Perylene														

LEGEND

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- B - Analyte was detected in the blank.
- J - The associated numerical value is an estimated quantity.
- R - Date for analysis is unusable (compound may or may not be present).
- N - Presumptive evidence of presence of the material.
- NJ - Presumptive evidence of the presence of the material at an estimated quantity.
- LU - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

B18VOABLK

CHEMICAL DATA SUMMARY

Site Name and Code: Castle Miles LF
Case Number: 20267
Concentrations in micrograms/kilogram (µg/kg)
Compiled by: Fluor Daniel, Inc.

Traffic Number: Matrix: Percent Moisture: Location and/or Sample Description:	FA-A75		FA-A76		FA-A77		FA-A78		FA-A79					
	WATER		WATER		WATER		WATER		WATER					
	GW-13		GW-14		L-15		GW-17		GW-20					
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Phenol	108-95-2	BNA												
bis(2-Chloroethyl)Ether	111-44-4	BNA												
2-Chlorophenol	95-57-8	BNA												
1,3-Dichlorobenzene	541-73-1	BNA												
1,4-Dichlorobenzene	106-46-7	BNA												
1,2-Dichlorobenzene	95-50-1	BNA												
2-Methylphenol	95-48-7	BNA												
2,2'-Oxybis(1-Chloropropane)	108-90-1	BNA												
4-Methylphenol	106-44-5	BNA												
N-Nitroso-Di-n-Propylamine	621-84-7	BNA												
Hexachloroethane	67-72-1	BNA												
Nitrobenzene	98-95-3	BNA												
Isophorone	78-59-1	BNA												
2-Nitrophenol	88-75-5	BNA												
2,4-Dimethylphenol	105-67-9	BNA												
bis(2-Chloroethoxy)Methane	111-91-1	BNA												
2,4-Dichlorophenol	120-83-2	BNA												
1,2,4-Trichlorobenzene	120-82-1	BNA												
Naphthalene	91-20-3	BNA												
4-Chloroaniline	136-47-8	BNA												
Hexachlorobutadiene	87-68-3	BNA												
4-Chloro-3-Methylphenol	59-50-7	BNA												
2-Methylnaphthalene	91-57-6	BNA												
Hexachlorocyclopentadiene	77-47-4	BNA												
2,4,6-Trichlorophenol	88-06-2	BNA												
2,4,5-Trichlorophenol	95-95-4	BNA												
2-Chloronaphthalene	91-59-7	BNA												
2-Nitroaniline	88-74-4	BNA												
Dimethyl Phthalate	131-11-3	BNA												
Acenaphthylene	208-96-8	BNA												
2,6-Dinitrotoluene	608-20-2	BNA												
3-Nitroaniline	98-09-2	BNA												
Acenaphthylene	83-32-9	BNA												

LEGEND
U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
B - Analyte was detected in the blank.
J - The associated numerical value is an estimated quantity.
R - Data for analyte is unusable (compound may or may not be present).
N - Presumptive evidence of presence of the material.
NJ - Presumptive evidence of the presence of the material at an estimated quantity.
UU - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

BUSVOABLK

0 0 2 3 3 5

Site Name and Code: Castle Miles LF
Case Number: 20267
Concentrations in micrograms/kilogram (ug/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number:
Matrix:
Percent Moisture:
Location:
and/or
Sample
Description:

[illegible]

LEGEND

U - The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
B - Analyte was detected in the blank.
J - The associated numerical value is an estimated quantity.
R - Date for analysis is unusable (compound may or may not be present).
N - Presumptive evidence of presence of the material.
Nu - Presumptive evidence of the presence of the material at an estimated quantity.
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

CHEMICAL DATA SUMMARY

Site Name and Code: Castle Miles LF

Case Number: 20267

Concentrations in micrograms/kilogram (µg/kg)

Compiled by: Fluor Daniel, Inc.

Matrix			FA-A56		FA-A57		FA-A58		FA-A59		FA-A60		FA-A61	
WATER			WATER		SOIL		SOIL		SOIL		SOIL		SOIL	
Percent Moisture			18		21		21		14		18		18	
Location			GW-16		GW-16		SS-01		SS-02		SS-03		SS-04	
and/or														
Sample														
Description														
COMPOUND NAME			CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Chloromethane			74-87-3	VOA										
Bromomethane			74-83-9	VOA										
Vinyl Chloride			75-01-4	VOA	10	U	10	U	12	U	12	U	11	U
Chloroethane			75-00-3	VOA	10	U	10	U	12	U	12	U	11	U
Methylene Chloride			75-09-2	VOA	10	U	10	U	12	U	12	U	11	U
Acetone			67-64-1	VOA	10	U	10	U	12	U	12	U	11	U
Carbon Disulfide			75-15-0	VOA										
1,1-Dichloroethane			75-35-4	VOA										
1,1-Dichloroethene			75-34-3	VOA	10	U	10	U	12	U	12	U	11	U
1,2-Dichloroethane (total)			540-59-0	VOA	10	U	10	U	12	U	12	U	11	U
Chloroform			67-66-3	VOA										
1,2-Dichloroethane			107-06-2	VOA										
2-Butanone			78-93-3	VOA										
1,1,1-Trichloroethane			71-55-6	VOA										
Carbon tetrachloride			56-23-5	VOA										
Bromodichloromethane			75-27-4	VOA										
1,2-Dichloropropane			78-87-5	VOA										
cis-1,3-Dichloropropene			10061-01-5	VOA										
Trichloroethene			79-01-6	VOA	10	U	10	U	12	U	12	U	11	U
Dibromochloromethane			124-48-1	VOA										
1,1,2-Trichloroethane			79-00-5	VOA										
Benzene			71-43-2	VOA										
Trans-1,3-Dichloropropene			10061-02-6	VOA										
Bromoform			75-25-2	VOA										
4-Methyl-2-Pentanone			108-10-1	VOA										
2-Hexanone			591-78-6	VOA										
Tetrachloroethene			127-18-4	VOA										
1,1,2,2-Tetrachloroethane			79-34-5	VOA										
Toluene			108-88-3	VOA										
Chlorobenzene			108-90-7	VOA	10	U	10	U	12	U	12	U	11	U
Ethylbenzene			100-41-4	VOA										
Styrene			100-42-5	VOA										
Xylene (total)			1330-20-7	VOA										

LEGEND

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 N - Presumptive evidence of presence of the material.
 NJ - Presumptive evidence of the presence of the material at estimated quantity.
 UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Site Name and Code: Castle Miles LF
Case Number: 20267
Concentration in micrograms/kilogram (µg/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Compiled by: F&B or Data Inc.			Traffic Number			FA-A68		FA-A69		FA-A70		FA-A71		FA-A72		FA-A73		FA-A74	
			SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		WATER		
Percent Moisture			20		19		22		26		20		19						
Location and/or Sample Description			SS-06		SS-07		SS-08		SS-09		SS-10		SS-11		GW-12				
COMPOUND NAME			CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	
Chloromethane			74-87-3	VOA															
Bromomethane			74-83-9	VOA															
Vinyl Chloride			75-01-4	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	U	
Chloroethane			75-00-3	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	U	
Methylene Chloride			75-09-2	VOA	12	U	12	U	7	J	14	U	12	U	12	U	10	U	
Acetone			67-64-1	VOA	12	U	12	U	13	U	10	J	12	U	12	U	10	U	
Carbon Disulfide			75-15-0	VOA															
1,1-Dichloroethane			75-35-4	VOA															
1,1-Dichloroethane			75-34-3	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	U	
1,2-Dichloroethane (total)			540-59-0	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	U	
Chloroform			67-66-3	VOA															
1,2-Dichloroethane			107-06-2	VOA															
2-Butanone			78-93-3	VOA															
1,1,1-Trichloroethane			71-55-6	VOA															
Carbon tetrachloride			56-23-5	VOA															
Bromodichloromethane			75-27-4	VOA															
1,2-Dichloropropane			78-87-5	VOA															
cis-1,3-Dichloropropene			10061-01-5	VOA															
Trichloroethene			79-01-6	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	U	
Dibromochloromethane			124-48-1	VOA															
1,1,2-Trichloroethane			79-00-5	VOA															
Benzene			71-43-2	VOA															
Trans-1,3-Dichloropropene			10061-02-6	VOA															
Bromoform			75-25-2	VOA															
4-Methyl-2-Pentanone			108-10-1	VOA															
2-Hexanone			591-78-6	VOA															
Tetrachloroethene			127-18-4	VOA															
1,1,2,2-Tetrachloroethane			79-34-5	VOA															
Toluene			108-88-3	VOA															
Chlorobenzene			108-90-7	VOA	12	U	12	U	13	U	14	U	12	U	12	U	10	U	
Ethylbenzene			100-41-4	VOA															
Styrene			100-42-5	VOA															
Xylene (total)			1330-20-7	VOA															
LEGEND																			

LEGEND
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B - Analyte was detected in the blank.
J - The associated numerical value is an estimated quantity.
R - Data for analyte is unusable (compound may or may not be present).
N - Presumptive evidence of presence of the material.
NU - Presumptive evidence of the presence of the material at estimated quantity.
LU - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Site Name and Code: Castle Miles LF
Case Number: 20267
Concentrations in micrograms/kilogram (µg/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Concentrations in micrograms/kilogram (µg/kg)			Traffic Number		FA-A75		FA-A76		FA-A77		FA-A78		FA-A79	
Compiled by: Fluor Daniel, Inc.			Matrix		WATER		WATER		WATER		WATER		WATER	
Percent Moisture														
Location and/or Sample Description					GW-13		GW-14		L-15		GW-17		GW-20	
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
Chloromethane	74-87-3	VOA												
Bromomethane	74-83-9	VOA												
Vinyl Chloride	75-01-4	VOA	28 J		25 J		10 U		10 U		10 U			
Chloroethane	75-00-3	VOA	10 U		7 J		10 U		10 U		10 U			
Methylene Chloride	75-09-2	VOA	10 U		10 U		10 U		10 U		10 U			
Acetone	67-64-1	VOA	10 U		10 U		10 U		10 U		10 U			
Carbon Disulfide	75-15-0	VOA												
1,1-Dichloroethene	75-35-4	VOA												
1,1-Dichloroethane	75-34-3	VOA	34 J		36 J		10 U		10 U		10 U			
1,2-Dichloroethene (total)	540-59-0	VOA	100 J		110 J		10 U		10 U		10 U			
Chloroform	67-66-3	VOA												
1,2-Dichloroethane	107-06-2	VOA												
2-Butanone	78-93-3	VOA												
1,1,1-Trichloroethane	71-55-6	VOA												
Carbon tetrachloride	56-23-5	VOA												
Bromodichloromethane	75-27-4	VOA												
1,2-Dichloropropane	78-87-5	VOA												
cis-1,3-Dichloropropene	10061-01-5	VOA												
Trichloroethene	79-01-6	VOA	11 J		12 J		10 U		10 U		10 U			
Dibromochloromethane	124-48-1	VOA												
1,1,2-Trichloroethane	79-00-5	VOA												
Benzene	71-43-2	VOA												
Trans-1,3-Dichloropropene	10061-02-6	VOA												
Bromoform	75-25-2	VOA												
4-Methyl-2-Pentanone	108-10-1	VOA												
2-Hexanone	591-78-6	VOA												
Tetrachloroethene	127-18-4	VOA												
1,1,2,2-Tetrachloroethane	79-34-5	VOA												
Toluene	108-88-3	VOA												
Chlorobenzene	108-90-7	VOA	10 U		10 U		10 U		8 J					
Ethylbenzene	100-41-4	VOA												
Styrene	100-42-5	VOA												
Xylene (total)	1330-20-7	VOA												

LEGEND
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B - Analyte was detected in the blank.
J - The associated numerical value is an estimated quantity.
R - Date for analysis is unusable (compound may or may not be present).
N - Presumptive evidence of presence of the material.
NJ - Presumptive evidence of the presence of the material at an estimated quantity.
UU - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Site Name and Code: Miller Road LF
Case Number: 20355
Concentrations in micrograms/Allogram (ug/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number:	FA-A59	FA-A60	FA-A63	FA-A64	FA-A65	FA-A66	FA-A67
Matrix:	WATER	WATER	SOIL	SOIL	SOIL	SOIL	SOIL
Percent Moisture:			20	17	19	14	14
Location and/or Sample Description:	GW-16	GW-18	SS-01	SS-02	SS-03	SS-04	SS-05

COMPOUND NAME	CAS NO.	CLASS	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C	Concentration C
alpha-BHC	319-84-6	PEST/PCB											
beta-BHC	319-85-7	PEST/PCB											
delta-BHC	319-86-8	PEST/PCB											
gamma-BHC (indane)	58-99-9	PEST/PCB											
Heptachlor	76-44-8	PEST/PCB											
Aldrin	309-00-2	PEST/PCB											
Heptachlor epoxide	1024-57-3	PEST/PCB											
Endosulfan I	959-98-8	PEST/PCB											
Dieldrin	60-57-1	PEST/PCB											
4,4'-DDE	72-55-9	PEST/PCB											
Endrin	72-20-8	PEST/PCB											
Endosulfan II	33213-65-9	PEST/PCB											
4,4'-DDD	72-54-8	PEST/PCB	0.1 U	0.1 U	3.3 U	4.9 J	3.5 U	3.5 U	3.3 U				
Endosulfan sulfate	1031-07-8	PEST/PCB											
4,4'-DDT	50-29-3	PEST/PCB											
Methoxychlor	72-43-5	PEST/PCB											
Endrin ketone	53494-70-5	PEST/PCB	0.1 U	0.1 U	3.3 U	3.6 U	3.5 U	3.5 U	3.3 U				
Endrin aldehyde	7421-93-4	PEST/PCB											
alpha-Chlordane	5103-71-9	PEST/PCB											
gamma-Chlordane	5103-74-2	PEST/PCB											
Toxaphene	8001-35-2	PEST/PCB											
Aroclor-1016	12674-11-2	PEST/PCB											
Aroclor-1221	11104-28-2	PEST/PCB											
Aroclor-1232	11141-16-5	PEST/PCB											
Aroclor-1242	53469-21-9	PEST/PCB											
Aroclor-1248	12672-29-6	PEST/PCB											
Aroclor-1254	11097-69-1	PEST/PCB											
Aroclor-1260	11096-82-5	PEST/PCB	1 U	1 U	15 J	39 J	35 U	35 U	33 U				

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J - The associated numerical value is an estimated quantity.
R - Data for analyte is unusable (compound may or may not be present).
N - Presumptive evidence of presence of the material.
NJ - Presumptive evidence of the presence of the material at an estimated quantity.
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

CHEMICAL DATA SUMMARY

Site Name and Code: Miller Road LF
 Case Number: 20355
 Concentrations in micrograms/kilogram (µg/kg)
 Compiled by: Fluor Daniel, Inc.

Traffic Number:	FA-A68	FA-A69	FA-A70	FA-A71	FA-A72	FA-A73	FA-A74
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	WATER
Percent Moisture:	17	19	22	27	19	18	
Location and/or Sample Description:	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11	GW-12

COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
alpha-BHC	319-84-6	PEST/PCB												
beta-BHC	319-85-7	PEST/PCB												
delta-BHC	319-86-8	PEST/PCB												
gamma-BHC (lindane)	58-80-9	PEST/PCB												
Heptachlor	76-44-8	PEST/PCB												
Aldrin	309-00-2	PEST/PCB												
Heptachlor epoxide	1024-57-3	PEST/PCB												
Endosulfan I	959-98-8	PEST/PCB												
Dieldrin	60-57-1	PEST/PCB												
4,4'-DDE	72-55-9	PEST/PCB												
Endrin	72-20-8	PEST/PCB												
Endosulfan II	33213-65-9	PEST/PCB												
4,4'-DDD	72-54-8	PEST/PCB	3.6	U	3.4	U	3.6	U	4	U	3.6	U	3.5	U
Endosulfan sulfate	1031-07-8	PEST/PCB												
4,4'-DDT	50-29-3	PEST/PCB												
Methoxychlor	72-43-5	PEST/PCB												
Endrin ketone	53494-70-5	PEST/PCB	5.0	J	3.4	U	3.6	U	4	U	3.6	U	3.5	U
Endrin aldehyde	7421-93-4	PEST/PCB												
alpha-Chlordane	5103-71-9	PEST/PCB												
gamma-Chlordane	5103-74-2	PEST/PCB												
Toxaphene	8001-35-2	PEST/PCB												
Aroclor-1016	12674-11-2	PEST/PCB												
Aroclor-1221	11104-28-2	PEST/PCB												
Aroclor-1232	11141-16-5	PEST/PCB												
Aroclor-1242	53469-21-9	PEST/PCB												
Aroclor-1248	12672-29-6	PEST/PCB												
Aroclor-1254	11067-69-1	PEST/PCB												
Aroclor-1260	11096-82-5	PEST/PCB	49	J	15	J	20	J	17	J	36	U	19	JP

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Site Name and Code: Miller Road LF
Case Number: 20355
Concentrations in micrograms/kilogram (µg/kg)
Compiled by: Fluor Daniel, Inc.

CHEMICAL DATA SUMMARY

Traffic Number: Matrix: Percent Moisture: Location and/or Sample Description:	FA-A75		FA-A76		FA-A77		FA-A78		FA-A79					
	WATER		WATER		WATER		WATER		WATER					
	GW-13		GW-14		L-15		GW-17		GW-23					
COMPOUND NAME	CAS NO.	CLASS	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C	Concentration	C
alpha-BHC	319-84-6	PEST/PCB												
beta-BHC	319-85-7	PEST/PCB												
delta-BHC	319-86-8	PEST/PCB												
gamma-BHC (Lindane)	58-89-9	PEST/PCB												
Heptachlor	76-44-8	PEST/PCB												
Aldrin	309-00-2	PEST/PCB												
Heptachlor epoxide	1024-57-3	PEST/PCB												
Endosulfan I	959-98-8	PEST/PCB												
Dieldrin	60-57-1	PEST/PCB												
4,4'-DDE	72-55-9	PEST/PCB												
Endrin	72-20-8	PEST/PCB												
Endosulfan II	33213-65-9	PEST/PCB												
4,4'-DDD	72-54-8	PEST/PCB	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
Endosulfan sulfate	1031-07-8	PEST/PCB												
4,4'-DDT	50-29-3	PEST/PCB												
Methoxychlor	72-43-5	PEST/PCB												
Endrin ketone	53494-70-5	PEST/PCB	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
Endrin aldehyde	7421-93-4	PEST/PCB												
alpha-Chlordane	5103-71-9	PEST/PCB												
gamma-Chlordane	5103-74-2	PEST/PCB												
Toxaphene	8001-35-2	PEST/PCB												
Aroclor-1016	12674-11-2	PEST/PCB												
Aroclor-1221	11104-28-2	PEST/PCB												
Aroclor-1232	11141-16-5	PEST/PCB												
Aroclor-1242	53469-21-9	PEST/PCB												
Aroclor-1248	12672-29-6	PEST/PCB												
Aroclor-1254	11097-69-1	PEST/PCB												
Aroclor-1260	11096-82-5	PEST/PCB	1	U	1	U	1	U	1	U	1	U		

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